

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P476886

Luminaire Tested: **IFLD-S-SA6C-727-U-T2R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476886  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-727-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

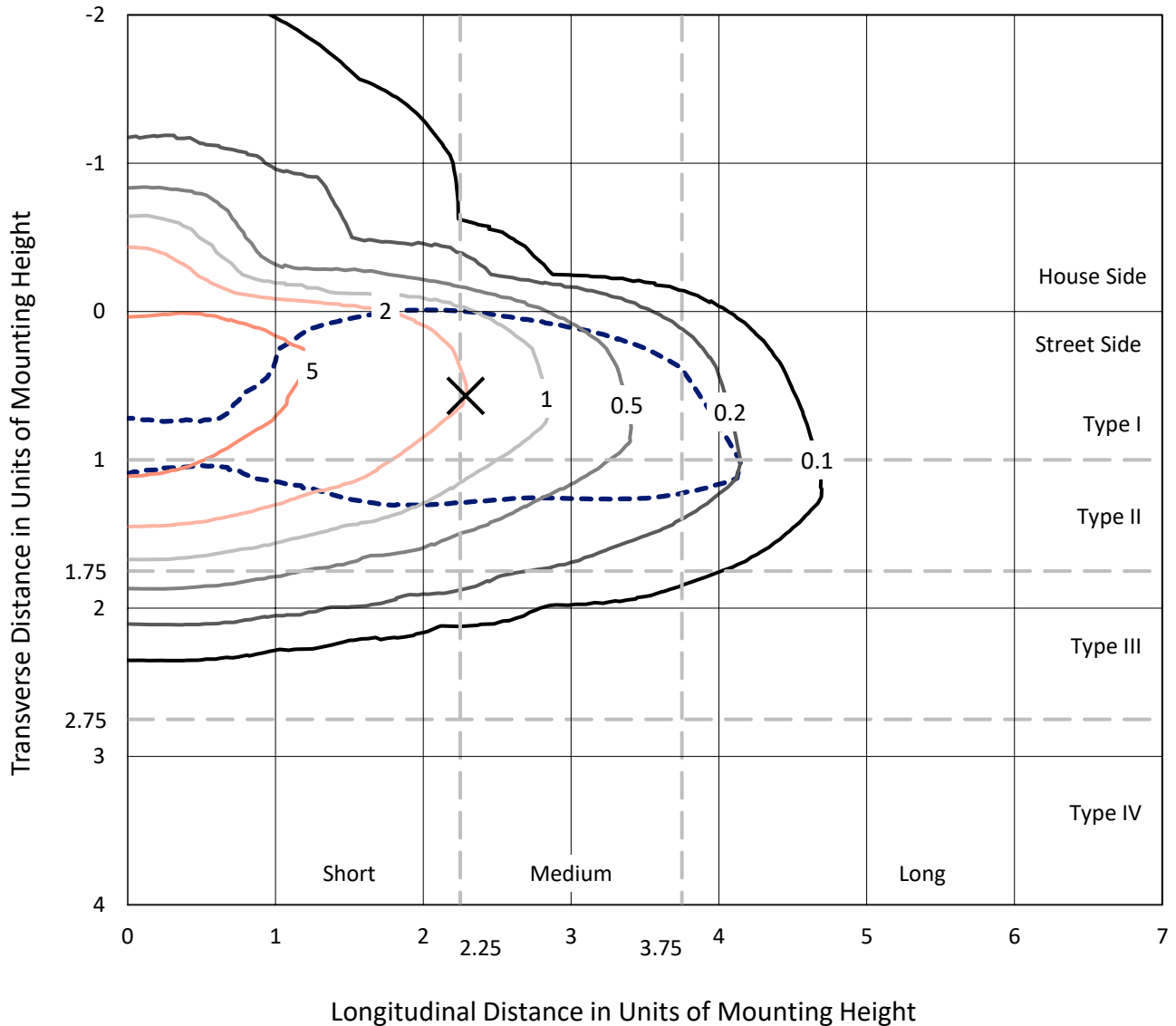
Lumens per Lamp: N/A  
Luminaire Lumens: 34945.1 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 321.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

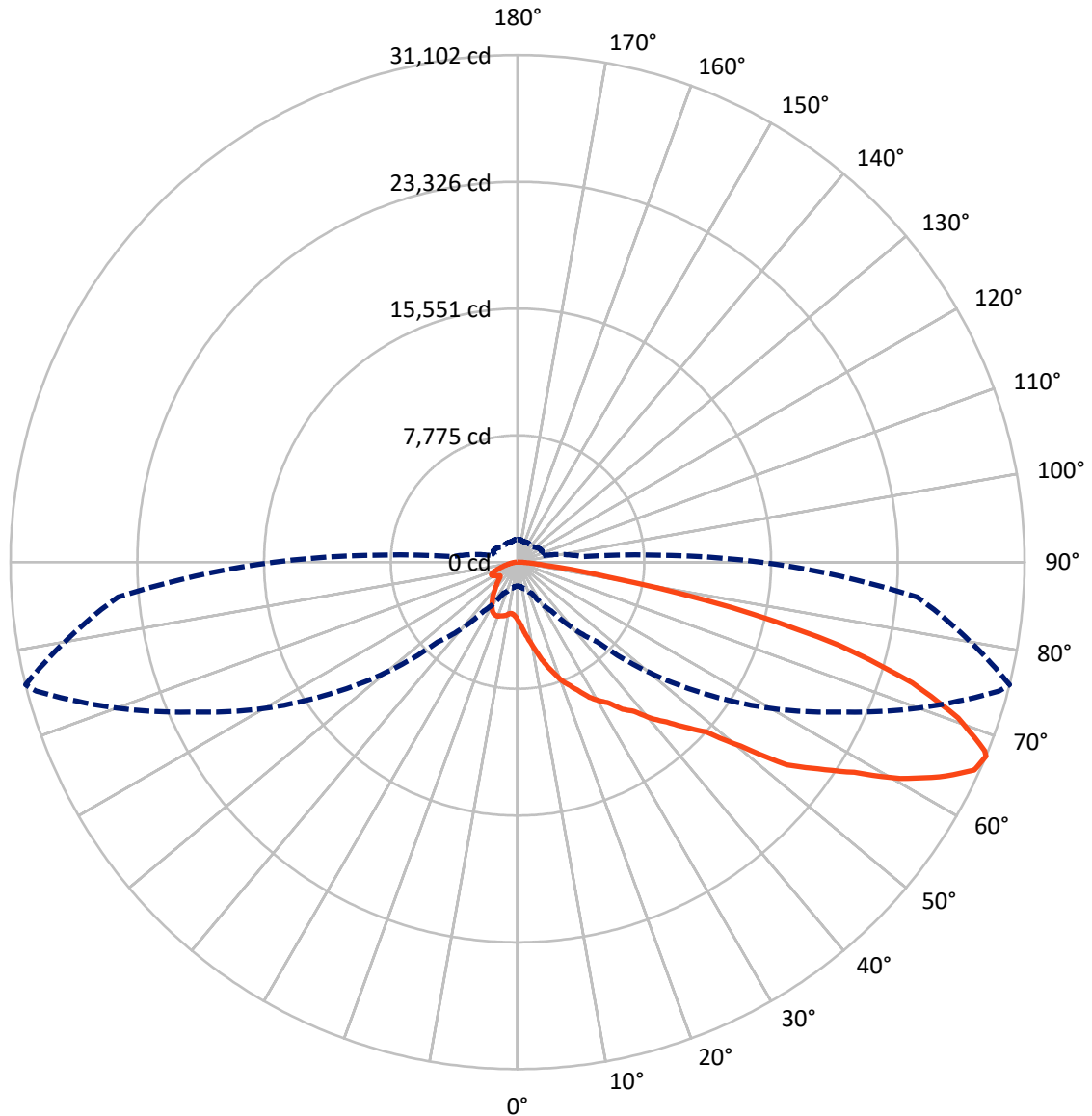
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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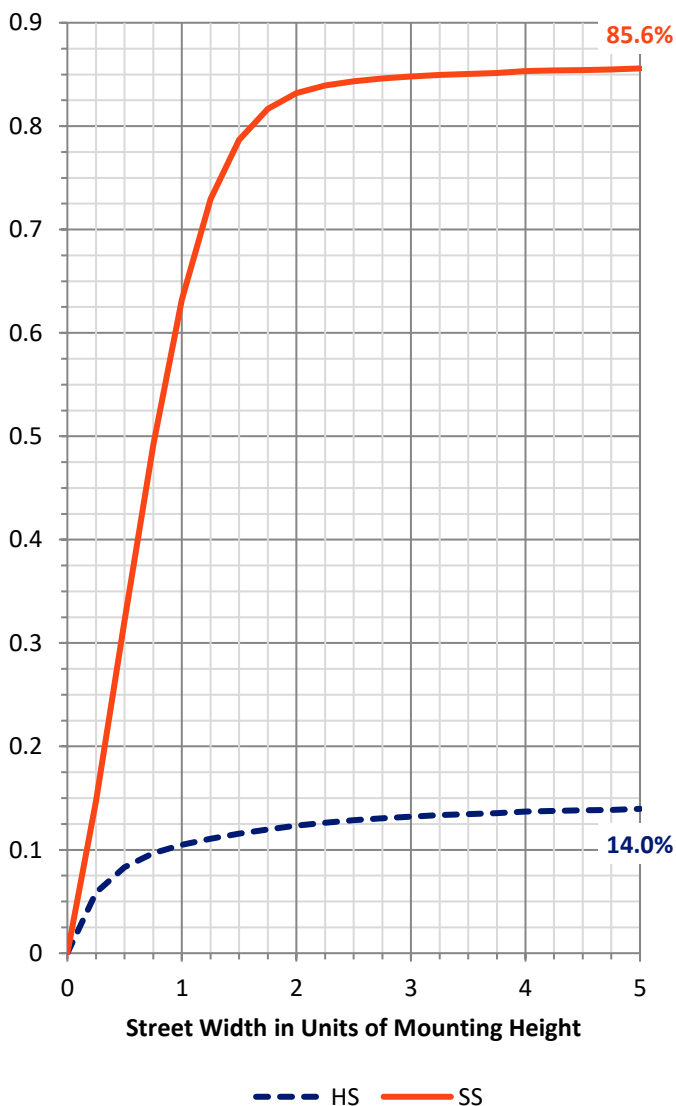
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4971.4	0.0	4971.4
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	29973.7	0.0	29973.7
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	34945.1	0.0	34945.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	414.2	1.2
10°-20°	1553.6	4.4
20°-30°	2888.4	8.3
30°-40°	4578.7	13.1
40°-50°	6332.8	18.1
50°-60°	7789.7	22.3
60°-70°	7248.7	20.7
70°-80°	3637.4	10.4
80°-90°	501.5	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	34945.1	100.0
0°-180°	34945.1	100.0

**Coefficient of Utilization**



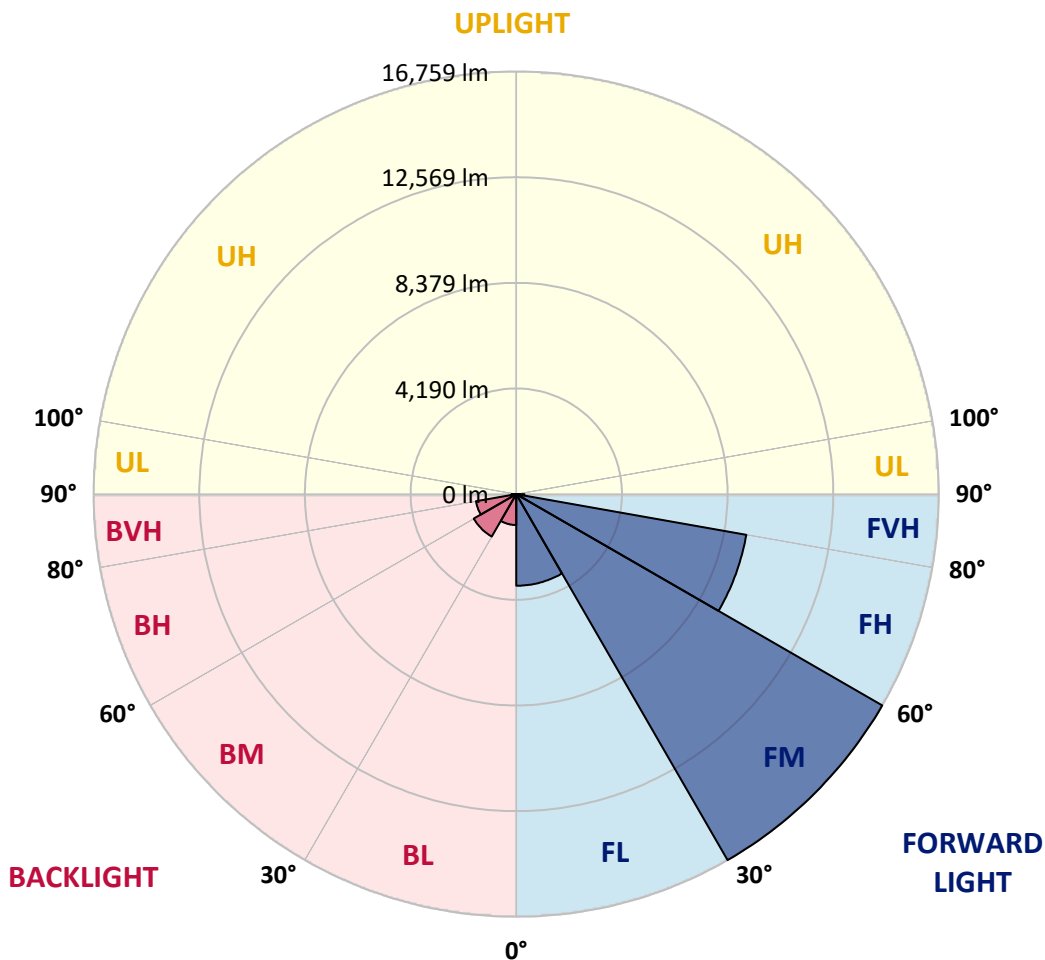
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3632.0	10.4			
FM (30°-60°)	16758.5	48.0			
FH (60°-80°)	9263.7	26.5			G4/12000
FVH (80°-90°)	319.5	0.9			G3/500
BL (0°-30°)	1224.2	3.5	B3/2500		
BM (30°-60°)	1942.7	5.6	B2/2500		
BH (60°-80°)	1622.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	182.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3576.1	3576.1	3576.1	3576.1	3576.1	3576.1	3576.1	3576.1	3576.1	3576.1	3576.1
2.5°	4961.9	4902.2	4842.5	4715.0	4671.2	4551.8	4332.7	4089.8	3890.7	3862.8	3723.4
5°	6156.6	6069.0	6049.1	5977.4	5750.4	5519.5	5161.0	4770.8	4284.9	4320.8	3842.9
7.5°	7052.6	7000.9	6893.3	6825.6	6690.2	6383.6	6013.3	5495.6	4878.3	4758.8	4109.7
10°	7729.6	7657.9	7654.0	7594.2	7522.5	7207.9	6925.2	6228.3	5435.8	5272.6	4436.3
12.5°	8072.1	8060.2	8271.2	8271.2	8243.3	8111.9	7626.1	6988.9	5965.5	5909.7	4814.6
15°	8442.5	8342.9	8526.1	8665.5	8737.1	8804.8	8402.6	7729.6	6642.5	6534.9	5220.8
17.5°	8442.5	8434.5	8617.7	8848.6	9223.0	9310.6	9091.6	8410.6	7204.0	7124.3	5666.8
20°	8299.1	8414.6	8542.0	8852.6	9258.8	9613.2	9677.0	9107.5	7825.2	7761.5	6172.5
22.5°	8968.1	8856.6	8988.0	9107.5	9422.1	9959.7	10134.9	9720.8	8478.3	8235.4	6630.5
25°	10091.1	10015.5	9919.9	9744.7	9876.1	10111.0	10377.8	10174.7	9035.8	8765.0	7072.5
27.5°	11186.2	11190.2	10983.2	10600.9	10318.1	10365.9	10680.5	10573.0	9505.7	9386.3	7375.2
30°	12743.3	12647.7	12416.8	11899.1	11345.5	10891.6	10839.8	10943.3	10103.1	9872.1	7809.3
32.5°	13910.1	13930.0	13603.5	12858.8	12102.2	11731.8	11277.8	11321.6	10481.4	10310.1	8155.7
35°	14853.9	14830.0	14599.1	13981.8	13085.8	12639.8	12026.5	11775.6	11361.5	11090.7	8685.4
37.5°	15873.4	15678.3	15303.9	14607.0	14033.6	13416.3	12819.0	12253.5	11946.9	11620.3	9139.4
40°	16283.6	16283.6	15781.8	15463.2	14782.3	14316.3	13930.0	12882.7	12659.7	12596.0	9720.8
42.5°	15992.9	16172.1	15965.0	15602.6	15323.8	14734.5	14630.9	13535.8	13539.8	13412.3	10417.7
45°	15965.0	15718.1	15546.9	15638.4	15507.0	15475.2	15738.0	14439.8	14463.7	14447.7	11353.5
47.5°	15164.6	15053.1	15307.9	15459.2	15566.8	16060.6	16817.2	15519.0	15690.2	15570.7	12432.7
50°	14368.1	14348.2	14507.5	15057.0	15523.0	16335.3	17844.6	17183.6	17745.1	17737.1	14388.0
52.5°	12185.8	12396.9	13022.1	14184.9	15335.8	16709.7	18621.2	19310.1	20381.4	20672.1	16008.8
55°	10099.1	9987.6	10911.5	12600.0	14519.4	16857.0	19489.3	20588.4	22165.4	22376.5	17673.4
57.5°	7857.1	8064.1	8792.9	10413.7	12830.9	16128.3	20126.5	21850.8	24180.5	24343.7	19604.8
60°	5861.9	5889.8	6690.2	7996.4	10584.9	14483.6	20333.6	23145.1	26490.2	26956.1	21627.8
62.5°	3687.6	3854.9	4464.1	5750.4	7968.6	12181.8	19405.7	23929.6	28911.4	29034.9	23666.7
65°	1987.2	2094.7	2552.6	3361.1	5567.2	9215.0	16944.6	23459.7	30050.4	30783.1	24574.7
67°	1469.5	1489.4	1700.4	2146.5	3723.4	6937.1	14129.2	21759.2	30568.0	31101.7	24610.5
67.5°	1377.9	1405.7	1573.0	1927.4	3301.3	6387.6	13392.4	21153.9	30337.1	30910.5	24331.8
70°	1178.8	1186.7	1226.5	1326.1	1851.8	3842.9	9119.4	17334.9	28118.9	28668.5	22376.5
72.5°	1047.3	1055.3	1071.2	1091.1	1254.4	2222.1	5547.3	13340.7	24439.3	25315.4	19306.1
75°	919.9	947.8	955.7	939.8	1067.3	1445.6	2950.9	9804.4	19935.3	20361.4	15013.2
77.5°	780.5	792.5	808.4	824.3	951.8	1079.2	1417.7	6618.6	13683.1	13424.3	8119.9
80°	657.1	661.1	673.0	685.0	824.3	824.3	804.4	3576.1	5977.4	5714.6	2743.8
82.5°	469.9	497.8	525.7	557.5	685.0	553.5	525.7	1592.9	1891.6	1800.0	927.9
85°	183.2	223.0	346.5	382.3	434.1	298.7	350.4	688.9	788.5	780.5	346.5
87.5°	31.9	35.8	95.6	147.3	159.3	103.5	167.3	246.9	294.7	318.6	127.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3576.1	3576.1	3576.1	3576.1	3576.1	3576.1	3576.1	3576.1	3576.1	3576.1	3576.1
2.5°	3608.0	3484.5	3337.2	3189.8	3094.2	2942.9	2931.0	2839.4	2827.4	2795.6	2811.5
5°	3635.8	3488.5	3189.8	2954.9	2847.3	2759.7	2779.6	2739.8	2727.9	2708.0	2676.1
7.5°	3854.9	3564.1	3118.1	2915.0	2835.4	2795.6	2795.6	2747.8	2711.9	2735.8	2759.7
10°	3998.2	3600.0	3173.9	2970.8	2907.1	2819.5	2851.3	2791.6	2811.5	2763.7	2763.7
12.5°	4229.2	3803.1	3289.4	3054.4	2950.9	2871.2	2903.1	2835.4	2819.5	2823.4	2811.5
15°	4539.8	3938.5	3341.1	3102.2	3030.5	2931.0	2907.1	2847.3	2787.6	2767.7	2791.6
17.5°	4830.5	4105.7	3377.0	3130.1	3014.6	2903.1	2875.2	2799.5	2779.6	2719.9	2672.1
20°	5177.0	4304.9	3424.8	3154.0	2954.9	2843.4	2771.7	2696.0	2628.3	2592.5	2608.4
22.5°	5407.9	4408.4	3448.7	3106.2	2867.2	2763.7	2612.4	2560.6	2465.0	2425.2	2393.4
25°	5786.3	4535.8	3388.9	2974.8	2711.9	2544.7	2409.3	2337.6	2269.9	2218.1	2202.2
27.5°	5881.8	4631.4	3249.5	2751.8	2465.0	2289.8	2174.3	2086.7	2042.9	1963.3	1947.3
30°	6160.6	4535.8	3042.5	2481.0	2230.1	2050.9	1935.4	1871.7	1768.1	1748.2	1704.4
32.5°	6339.8	4563.7	2779.6	2218.1	1959.3	1800.0	1724.3	1660.6	1632.7	1537.2	1513.3
35°	6638.5	4468.1	2512.8	1975.2	1736.3	1612.8	1549.1	1529.2	1437.6	1393.8	1354.0
37.5°	6829.6	4412.4	2246.0	1700.4	1493.4	1441.6	1461.5	1377.9	1266.4	1182.7	1154.9
40°	7164.1	4392.5	1943.4	1473.4	1326.1	1314.2	1377.9	1218.6	1015.5	943.8	904.0
42.5°	7646.0	4257.1	1708.4	1270.4	1194.7	1246.5	1258.4	1015.5	900.0	840.3	812.4
45°	8107.9	4284.9	1477.4	1051.3	1039.4	1115.0	1087.2	860.2	792.5	748.7	772.6
47.5°	8996.0	4424.3	1250.4	876.1	935.8	1007.5	844.2	768.6	704.9	673.0	677.0
50°	10369.9	4559.7	1051.3	800.4	884.1	911.9	724.8	696.9	692.9	629.2	625.2
52.5°	11194.2	4508.0	1015.5	896.0	947.8	911.9	788.5	768.6	736.7	708.8	677.0
55°	12504.4	4659.3	1091.1	1047.3	1075.2	876.1	884.1	876.1	852.2	780.5	800.4
57.5°	13547.7	4758.8	1190.7	1170.8	1154.9	911.9	923.9	927.9	911.9	880.1	908.0
60°	14981.4	4957.9	1294.2	1298.2	1302.2	991.6	1011.5	1035.4	1031.4	1019.5	1027.4
62.5°	15861.5	4866.4	1409.7	1473.4	1453.5	1154.9	1150.9	1166.8	1166.8	1186.7	1198.7
65°	15730.0	4527.9	1469.5	1628.8	1525.2	1274.3	1274.3	1282.3	1286.3	1326.1	1330.1
67°	14941.5	3922.6	1437.6	1652.6	1525.2	1322.1	1322.1	1330.1	1302.2	1405.7	1373.9
67.5°	14575.2	3743.4	1409.7	1632.7	1513.3	1318.1	1318.1	1322.1	1298.2	1397.8	1365.9
70°	12675.6	2779.6	1214.6	1445.6	1401.8	1282.3	1282.3	1258.4	1238.5	1369.9	1342.0
72.5°	10819.9	2019.0	975.7	1230.5	1266.4	1234.5	1242.5	1182.7	1127.0	1218.6	1194.7
75°	8287.1	1485.4	760.6	947.8	1071.2	1154.9	1206.6	1055.3	983.6	1007.5	963.7
77.5°	4623.4	967.7	601.3	700.9	816.4	1075.2	1158.8	951.8	804.4	776.5	776.5
80°	1569.0	565.5	442.0	521.7	561.5	951.8	1083.2	772.6	633.2	605.3	585.4
82.5°	593.4	346.5	302.7	358.4	358.4	752.7	884.1	593.4	477.9	617.3	629.2
85°	270.8	207.1	199.1	207.1	207.1	461.9	625.2	386.3	430.1	370.4	326.5
87.5°	107.5	99.6	91.6	87.6	71.7	79.6	215.0	103.5	195.1	51.8	47.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)